

图 1 所示为本文所提的基于深度学习的多模态情感识别模型框架图。该模型由三个主要部分构成：输入层、特征提取层和输出层。输入层接收来自不同模态的数据（如文本、语音、面部表情等）。特征提取层利用深度神经网络对这些多模态数据进行联合特征提取，捕捉不同模态之间的交互信息。输出层则根据提取出的特征进行情感分类，输出最终的情感识别结果。

ennsylvania

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 UNDER DATA, PITTSBURGH E. & P.
 Parlor and Dining Cars Harrisburg to
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 M. PENNSYLVANIA LIMITED—Pitts-
 burgh, Harrisburg, Scranton, and Philadel-
 phia. Harrisburg to Chicago, Philadelphia,
 St. Louis, Cincinnati, and Toledo.
 Dining Car to Harrisburg.
 M. FAST LINE—Pittsburgh, Buffalo, Parlor
 Harrisburg, Buffet Parlor Car Harris-
 burg.
 M. CHICAGO AND ST. LOUIS EX-
 pressing Car Washington to St. Louis,
 Harrisburg and Philadelphia. Harrisburg
 to St. Louis, Louisville (via Chicago)
 to Chicago.
 WESTERN EXPRESS—Pittsburgh, Sleep-
 ing to Pittsburgh and Chicago. Dining Car
 to Chicago.
 M. SOUTHWESTERN EXPRESS—Pitts-
 burgh, Cars Washington to Pittsburgh
 Harrisburg to St. Louis, Cincinnati, Phila-
 delphia via Cincinnati.
 M. PITTSBURGH EXPRESS—Pittsburgh, Sleep-
 ing to Pittsburgh.
 For New York, Canadaigua, Rochester,
 and other places, daily except Sunday.

—For Elmore and Reno, daily, ex. day. For Williamsport daily, 2:30 P. M.

—For Williamsport, Rochester, Erie, Niagara Falls, Buffalo, and Oswego, daily, ex. Sunday. For Washington to Rochester via Sleeping Car Washington to Rochester, 7:00 A. M.

—For Erie, Canandaigua, Rochester, and Niagara Falls daily. Pullman Car Washington to Rochester Station, 7:00 A. M.

Philadelphia, New York, and the East.

M. "CONGRESSIONAL" LIMITED.
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A. 3:00, 10:20 (Dining Car), and 11:00
Car from Washington A. M. 12:45.
For Elmore, Rochester, Buffalo, and
Oswego, daily, ex. Sunday, 6:50
and 11:50 P. M. On Sunday, 7:00 (Dining
Car), 8:15, 5:00, 11:00 (Dining Car from
Rogers) A. M. 1:15, 4:45, 8:15, 11:00
(Dining Car), 6:50, 10:00, and 11:30 P. M.
Philadelphia only. Express, 12:15 P. M.
Rogers at 7:00 A. M. and 11:00 P. M.
without charge. 7:30 A. M. week-
end P. M. daily.
Rogers, 8:25, 7:00, 7:25, 7:35, 4:15, 9:00,
10:30, 11:00 A. M. 12:15, 12:45, 4:15, 10:45,
11:30, 4:30, 4:45, 8:15, 11:00, 11:30, 11:45,
5, 6:30, 7:25, 10:45, 11:05, 11:35, 11:45,
11:50 P. M. On Sunday, 5:00, 8:15, 9:00,
11:00, 11:25, 11:45, 11:50, 12:15, 12:45,
1:00, 4:15, 5:00, 5:30, 6:15, 6:35, 4:50,
10:30, 11:45 and 11:50 P. M.

For York, daily, ex. Sunday, and 6:31 P. M.
on Sunday, 9:00 A. M.

For Annapolis, 7:00 and 9:30 A. M., 12:15 and
1:45 P. M. daily, ex. Sunday. Sunday,
8:00 A. M. and 1:20 P. M.

For Florida and points on Atlantic Coast
from A. M. 7:40. M. 8:00. Daily, 10:45 and
11:45 A. M. week days; Atlantic Coast
Steamship and Seaboard Air Line, 5:00 P. M.
Annapolis (via) Baltimore, 7:00 A. M. week
days and 4:15 P. M. week days.

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Clay (via Delaware River)
7-11-88 4:00 PM (11/11/88)

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Includes in effect November 5, 1960.)

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Daily, local for Danvers, Charlotte, Baltimore and Lexington daily.
Daily, at Lexington and the Norfolk Daily, and, with C. & O. N. R. for Delmar, daily, and Lexington daily, exclusive of weekends and holidays.

M.—Daily, the UNITED STATES FAST Train stops New York and Washington.

Asheville, uniting at Salisbury for Asheville and Hot

M.—Local for Front Royal, Strasburg, Hagerstown, daily, except Sunday.
M.—Daily, local for Charlottesville, Sta. Calverton for Warrenton.
M.—Daily, NEW YORK to FLORIDA, carries Pullman Buffet Sleeping Cars, and Washington to Tampa, via Savannah, Jacksonville, and to Augusta, via Savannah, connecting with the Alcan. Through to Jacksonville.
M.—Daily, "WASHINGTON AND CHARLOTTE LIMITED," via Lynchburg, with express from New Orleans and Washington to New Orleans, through Rapid

Washington to Memphis

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train to Washington, Va., via Virginia Hot Springs
to Kentucky to Chicago.
M. DAILY. F. & V. Co., Limited Leave
for Washington, Fall River, Green-
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Train for Blue Springs, Va., daily. Pullman
car for Virginia Hot Springs, daily.
Greenland, Va., daily.
Sleepers Christened to Chicago and St.
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leston, daily, and for Richmond,
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